

```
Connect to instance | EC2 Manag x i-0422c37e6bd451731 (Docker) x +
us-east-2.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-0422c37e6bd451731
Verifying : 1:grub2-pc-2.06-2.amzn2.0.3.x86_64 12/29
Verifying : grubby-8.28-23.amzn2.0.2.x86_64 13/29
Verifying : kernel-4.14.243-185.433.amzn2.x86_64 14/29
Verifying : 1:grub2-tools-efi-2.06-2.amzn2.0.3.x86_64 15/29
Verifying : kernel-tools-4.14.243-185.433.amzn2.x86_64 16/29
Verifying : 1:grub2-common-2.06-2.amzn2.0.1.noarch 17/29
Verifying : 1:grub2-efi-x64-ec2-2.06-2.amzn2.0.1.x86_64 18/29
Verifying : ec2-utils-1.2-44.amzn2.noarch 19/29
Verifying : 1:grub2-tools-2.06-2.amzn2.0.1.x86_64 20/29
Verifying : 1:grub2-2.06-2.amzn2.0.1.x86_64 21/29
Verifying : systemtap-runtime-4.4-1.amzn2.0.1.x86_64 22/29
Verifying : 1:grub2-tools-minimal-2.06-2.amzn2.0.1.x86_64 23/29
Verifying : curl-7.61.1-12.amzn2.0.4.x86_64 24/29
Verifying : 1:grub2-pc-2.06-2.amzn2.0.1.x86_64 25/29
Verifying : kernel-tools-4.14.238-182.422.amzn2.x86_64 26/29
Verifying : libcurl-7.61.1-12.amzn2.0.4.x86_64 27/29
Verifying : 1:grub2-pc-modules-2.06-2.amzn2.0.1.noarch 28/29
Verifying : grubby-8.28-23.amzn2.0.1.x86_64 29/29

Installed:
grub2.x86_64 1:2.06-2.amzn2.0.3 grub2-pc.x86_64 1:2.06-2.amzn2.0.3 grub2-tools.x86_64 1:2.06-2.amzn2.0.3
grub2-tools-efi.x86_64 1:2.06-2.amzn2.0.3 grub2-tools-extra.x86_64 1:2.06-2.amzn2.0.3 grub2-tools-minimal.x86_64 1:2.06-2.amzn2.0.3
kernel.x86_64 0:4.14.243-185.433.amzn2

Updated:
curl.x86_64 0:7.76.1-4.amzn2.0.1 ec2-utils.noarch 0:1.2-45.amzn2 grub2-common.noarch 1:2.06-2.amzn2.0.3
grub2-efi-x64-ec2.x86_64 1:2.06-2.amzn2.0.3 grub2-pc-modules.noarch 1:2.06-2.amzn2.0.3 grubby.x86_64 0:8.28-23.amzn2.0.2
kernel-tools.x86_64 0:4.14.243-185.433.amzn2 libcurl.x86_64 0:7.76.1-4.amzn2.0.1 systemtap-runtime.x86_64 0:4.4-1.amzn2.0.2

Replaced:
grub2.x86_64 1:2.06-2.amzn2.0.1 grub2-tools.x86_64 1:2.06-2.amzn2.0.1

Complete!
[ec2-user@ip-172-31-15-239 ~]$
```

i-0422c37e6bd451731 (Docker)

Public IPs: 18.220.92.48 Private IPs: 172.31.15.239

```
Connect to instance | EC2 Manag x i-0422c37e6bd451731 (Docker) | x +
us-east-2.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-0422c37e6bd451731

Total download size: 59 M
Installed size: 244 M
Downloading packages:
(1/5): libcgrou-0.41-21.amzn2.x86_64.rpm | 66 kB 00:00:00
(2/5): pigz-2.3.4-1.amzn2.0.1.x86_64.rpm | 81 kB 00:00:00
(3/5): containerd-1.4.6-2.amzn2.x86_64.rpm | 24 MB 00:00:01
(4/5): docker-20.10.4-1.amzn2.x86_64.rpm | 32 MB 00:00:01
(5/5): runc-1.0.0-1.amzn2.x86_64.rpm | 3.3 MB 00:00:00
-----
Total | 45 MB/s | 59 MB 00:00:01
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : runc-1.0.0-1.amzn2.x86_64 1/5
Installing : containerd-1.4.6-2.amzn2.x86_64 2/5
Installing : libcgrou-0.41-21.amzn2.x86_64 3/5
Installing : pigz-2.3.4-1.amzn2.0.1.x86_64 4/5
Installing : docker-20.10.4-1.amzn2.x86_64 5/5
Verifying : docker-20.10.4-1.amzn2.x86_64 1/5
Verifying : pigz-2.3.4-1.amzn2.0.1.x86_64 2/5
Verifying : libcgrou-0.41-21.amzn2.x86_64 3/5
Verifying : containerd-1.4.6-2.amzn2.x86_64 4/5
Verifying : runc-1.0.0-1.amzn2.x86_64 5/5
Installed:
docker.x86_64 0:20.10.4-1.amzn2

Dependency Installed:
containerd.x86_64 0:1.4.6-2.amzn2 libcgrou.x86_64 0:0.41-21.amzn2 pigz.x86_64 0:2.3.4-1.amzn2.0.1 runc.x86_64 0:1.0.0-1.amzn2

Complete!
[ec2-user@ip-172-31-15-239 ~]$
```

i-0422c37e6bd451731 (Docker)

Public IPs: 18.220.92.48 Private IPs: 172.31.15.239

Complete!

```
[ec2-user@ip-172-31-15-239 ~]$ sudo su
```

```
[root@ip-172-31-15-239 ec2-user]# service docker start
```

```
Redirecting to /bin/systemctl start docker.service
```

```
[root@ip-172-31-15-239 ec2-user]#
```

34721 (Docker)

```
import      Import the contents from a tarball to create a filesystem image
info        Display system-wide information
inspect     Return low-level information on Docker objects
kill        Kill one or more running containers
load        Load an image from a tar archive or STDIN
login       Log in to a Docker registry
logout      Log out from a Docker registry
logs        Fetch the logs of a container
pause       Pause all processes within one or more containers
port        List port mappings or a specific mapping for the container
ps          List containers
pull        Pull an image or a repository from a registry
push        Push an image or a repository to a registry
rename      Rename a container
restart     Restart one or more containers
rm          Remove one or more containers
rmi         Remove one or more images
run         Run a command in a new container
save        Save one or more images to a tar archive (streamed to STDOUT by default)
search      Search the Docker Hub for images
start       Start one or more stopped containers
stats       Display a live stream of container(s) resource usage statistics
stop        Stop one or more running containers
tag         Create a tag TARGET_IMAGE that refers to SOURCE_IMAGE
top         Display the running processes of a container
unpause     Unpause all processes within one or more containers
update      Update configuration of one or more containers
version     Show the Docker version information
wait        Block until one or more containers stop, then print their exit codes
```

Run 'docker COMMAND --help' for more information on a command.

To get more help with docker, check out our guides at <https://docs.docker.com/go/guides/>

[root@ip-172-31-15-239 ec2-user]#

## i-0422c37e6bd451731 (Docker)

Public IPs: 18.220.92.48 Private IPs: 172.31.15.239

To get more help with docker, check out our guides at

```
[root@ip-172-31-15-239 ec2-user]# docker --version
```

```
Docker version 20.10.4, build d3cb89e
```

```
[root@ip-172-31-15-239 ec2-user]#
```



```
Connect to instance | EC2 Manag x i-0422c37e6bd451731 (Docker) | +
us-east-2.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-0422c37e6bd451731
version      Show the Docker version information
wait         Block until one or more containers stop, then print their exit codes

Run 'docker COMMAND --help' for more information on a command.

To get more help with docker, check out our guides at https://docs.docker.com/go/guides/
[root@ip-172-31-15-239 ec2-user]# docker --version
Docker version 20.10.4, build d3cb89e
[root@ip-172-31-15-239 ec2-user]# service docker status
Redirecting to /bin/systemctl status docker.service
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; disabled; vendor preset: disabled)
   Active: active (running) since Tue 2021-08-17 14:48:24 UTC; 4min 39s ago
     Docs: https://docs.docker.com
  Process: 7982 ExecStartPre=/usr/libexec/docker/docker-setup-runtimes.sh (code=exited, status=0/SUCCESS)
  Process: 7972 ExecStartPre=/bin/mkdir -p /run/docker (code=exited, status=0/SUCCESS)
 Main PID: 7989 (dockerd)
    Tasks: 7
   Memory: 37.6M
    CGroup: /system.slice/docker.service
            └─7989 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock --default-ulimit nfile=1024:4096

Aug 17 14:48:24 ip-172-31-15-239.us-east-2.compute.internal dockerd[7989]: time="2021-08-17T14:48:24.470570189Z" level=info msg="scheme \"unix\" not ...e=grpc
Aug 17 14:48:24 ip-172-31-15-239.us-east-2.compute.internal dockerd[7989]: time="2021-08-17T14:48:24.470839075Z" level=info msg="ccResolverWrapper: s...e=grpc
Aug 17 14:48:24 ip-172-31-15-239.us-east-2.compute.internal dockerd[7989]: time="2021-08-17T14:48:24.471199094Z" level=info msg="ClientConn switching...e=grpc
Aug 17 14:48:24 ip-172-31-15-239.us-east-2.compute.internal dockerd[7989]: time="2021-08-17T14:48:24.519921256Z" level=info msg="Loading containers: start."
Aug 17 14:48:24 ip-172-31-15-239.us-east-2.compute.internal dockerd[7989]: time="2021-08-17T14:48:24.701639249Z" level=info msg="Default bridge (dock...dress"
Aug 17 14:48:24 ip-172-31-15-239.us-east-2.compute.internal dockerd[7989]: time="2021-08-17T14:48:24.758436947Z" level=info msg="Loading containers: done."
Aug 17 14:48:24 ip-172-31-15-239.us-east-2.compute.internal dockerd[7989]: time="2021-08-17T14:48:24.776763187Z" level=info msg="Docker daemon" commi...0.10.4
Aug 17 14:48:24 ip-172-31-15-239.us-east-2.compute.internal dockerd[7989]: time="2021-08-17T14:48:24.777202115Z" level=info msg="Daemon has completed...ation"
Aug 17 14:48:24 ip-172-31-15-239.us-east-2.compute.internal systemd[1]: Started Docker Application Container Engine.
Aug 17 14:48:24 ip-172-31-15-239.us-east-2.compute.internal dockerd[7989]: time="2021-08-17T14:48:24.799720961Z" level=info msg="API listen on /run/d...sock"
Hint: Some lines were ellipsized, use -l to show in full.
[root@ip-172-31-15-239 ec2-user]#
```

i-0422c37e6bd451731 (Docker)

Public IPs: 18.220.92.48 Private IPs: 172.31.15.239

```
[root@ip-172-31-15-239 ec2-user]# service docker stop
Redirecting to /bin/systemctl stop docker.service
Warning: Stopping docker.service, but it can still be activated by:
  docker.socket
[root@ip-172-31-15-239 ec2-user]#
```

```
us-east-2.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-0422c37e6bd451731
Redirecting to /bin/systemctl stop docker.service
Warning: Stopping docker.service, but it can still be activated by:
  docker.socket
[root@ip-172-31-15-239 ec2-user]# docke run hello-world
bash: docke: command not found
[root@ip-172-31-15-239 ec2-user]# docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
b8dfde127a29: Pull complete
Digest: sha256:0fe98d7debd9049c50b597ef1f85b7c1e8cc81f59c8d623fcb2250e8bec85b38
Status: Downloaded newer image for hello-world:latest

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
   (amd64)
3. The Docker daemon created a new container from that image which runs the
   executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it
   to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/

For more examples and ideas, visit:
https://docs.docker.com/get-started/

[root@ip-172-31-15-239 ec2-user]#
```

i-0422c37e6bd451731 (Docker)

Public IPs: 18.220.92.48 Private IPs: 172.31.15.239



```
[root@ip-172-31-15-239 ec2-user]# docker run -it ubuntu bash
Unable to find image 'ubuntu:latest' locally
latest: Pulling from library/ubuntu
16ec32c2132b: Pull complete
Digest: sha256:82becede498899ec668628e7cb0ad87b6e1c371cb8a1e597d83a47fac21d6af3
Status: Downloaded newer image for ubuntu:latest
root@e667980594d4: /root@e667980594d4:/#
```

to your terminal.

To try something more ambitious, you can run an Ubuntu container with:

```
$ docker run -it ubuntu bash
```

Share images, automate workflows, and more with a free Docker ID:  
<https://hub.docker.com/>

For more examples and ideas, visit:  
<https://docs.docker.com/get-started/>

```
[root@ip-172-31-15-239 ec2-user]# docker run -it ubuntu bash
Unable to find image 'ubuntu:latest' locally
latest: Pulling from library/ubuntu
16ec32c2132b: Pull complete
Digest: sha256:82becede498899ec668628e7cb0ad87b6e1c371cb8a1e597d83a47fac21d6af3
Status: Downloaded newer image for ubuntu:latest
root@e667980594d4: /root@e667980594d4:/# exit
exit
[root@ip-172-31-15-239 ec2-user]# docker volume create
77295ee451a237bc0304aa64f81ffa989d3952b71e0bbd7dd085d4650a935710
[root@ip-172-31-15-239 ec2-user]# docker inspect 77295ee451a237bc0304aa64f81ffa989d3952b71e0bbd7dd085d4650a935710
[
  {
    "CreatedAt": "2021-08-17T14:58:38Z",
    "Driver": "local",
    "Labels": {},
    "Mountpoint": "/var/lib/docker/volumes/77295ee451a237bc0304aa64f81ffa989d3952b71e0bbd7dd085d4650a935710/_data",
    "Name": "77295ee451a237bc0304aa64f81ffa989d3952b71e0bbd7dd085d4650a935710",
    "Options": {},
    "Scope": "local"
  }
]
```

```
[root@ip-172-31-15-239 ec2-user]#
```

## i-0422c37e6bd451731 (Docker)

Public IPs: 18.220.92.48   Private IPs: 172.31.15.239

```
exit
[root@ip-172-31-15-239 ec2-user]# docker volume create
77295ee451a237bc0304aa64f81ffa989d3952b71e0bbd7dd085d4650a935710
[root@ip-172-31-15-239 ec2-user]# docker inspect 77295ee451a237bc0304aa64f81ffa989d3952b71e0bbd7dd085d4650a935710
[
  {
    "CreatedAt": "2021-08-17T14:58:38Z",
    "Driver": "local",
    "Labels": {},
    "Mountpoint": "/var/lib/docker/volumes/77295ee451a237bc0304aa64f81ffa989d3952b71e0bbd7dd085d4650a935710/_data",
    "Name": "77295ee451a237bc0304aa64f81ffa989d3952b71e0bbd7dd085d4650a935710",
    "Options": {},
    "Scope": "local"
  }
]
[root@ip-172-31-15-239 ec2-user]# docker volume 77295ee451a237bc0304aa64f81ffa989d3952b71e0bbd7dd085d4650a935710

Usage:  docker volume COMMAND

Manage volumes

Commands:
 create      Create a volume
 inspect     Display detailed information on one or more volumes
 ls          List volumes
 prune       Remove all unused local volumes
 rm          Remove one or more volumes

Run 'docker volume COMMAND --help' for more information on a command.
[root@ip-172-31-15-239 ec2-user]# docker volume rm 77295ee451a237bc0304aa64f81ffa989d3952b71e0bbd7dd085d4650a935710
77295ee451a237bc0304aa64f81ffa989d3952b71e0bbd7dd085d4650a935710
[root@ip-172-31-15-239 ec2-user]# volume ls
bash: volume: command not found
[root@ip-172-31-15-239 ec2-user]#
```

i-0422c37e6bd451731 (Docker)

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